Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

QM/F 33(B)

Bill No. 1st and FINAL (For Other Works) Date.....

DASARAHALLI DIVISION T. DASARAHALLI DIVISION

Bill Received No. Dated---------- Cash Book Voucher No dated----------

Schedule Ticket No Head of Account :P-1771 ZONE WORKS - POW WORKS

Est cost Rs 30.00 Lakhs

Name of work (as per sanctioned estimate) Job Code No:-014-20-000003

REPAIRS AND MAINTENANCE OF BOREWELLS AT SIDDEDAHALLI VILLAGE LIMIT IN BAGALAGUNTE WARD NO14

Name of Contractor:-Sri MUNIRAJ NAIK, NO58,RAYANNA NAGARA , NELAMANGALA, BANGALORE-562123

Reference to Agreement No:EE/DD/AGR/480/2019-20 Date-02-01-2020

Certified that the measurements were taken by me on 30/03/20 ....and recorded in Pages 35176-35178 of measurement Book No 352/08-09 and that the work is satisfactorily executed.

Contractor. Officer in charge of work.

Certified that the measurements were taken by me on ....and found correct.

The work is satisfactory executed. Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and contractor has not previously received any advance on this security These materials are of an imperishable nature and are all required for immediate usage on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಡಲಗುಂಟೆ, ಜಿ.ಜಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

Sub Division Officer

If Memorandum of payment

1) Total value of work done or supplies made as per account within.
2) Deduct amount to be held in reserve being-------- percent Rs.....
3) -do- Balance
4) Deduct payments :
   a) Amount of previous payment as in the office cash book voucher No----------Dated----------S.D.No----------
   b) Payments cost store or other materials supplied.
   Now made recovery of amount creditable to this / other work
   Amount paid on this bill cheque / cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the office cash Book Voucher No---------- dated ----------less adjustments
7) Net amount due to or from contractor
   Unadjusted items
8) Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied

Contractor's Signature.

Received Rs. (in words)

by cash and by adjustment of payment as per memorandum. (For office use)

Witnesses : 1

2

Dated signature of contractor Stamp

Paid by me by cheque No Dated

Cash Rs Dated

Initials of officer making payment Executive Engineer.

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1	Geophysical survey geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the hand pumps, MWS or PWSS by vertical electrical sounding by adopting venner or schlumbergers's method including recconnaisance suevey of geological formation Geophysical investigation of existing ground Water in the vicinity. its quality , quality & acceptabality of the users indicating the location of the site recommendeddepth of casing pipe required to seal the tope unconsolidated formation including an extra depth 1.0 metre in consolidated formation for aquire proposed to be tapped propable yield and other information required including transportation of instrument and accessories to work site, engating technical personal and labour
2	
3	
4	Sinking of Borewell of 165 mm clear using fast hydraulic rig of capacity 250 PSIG & above 900 CMF & abpve
5	in al strata including over burden upto 22 m fixing of casing pipes, collars and cap with necessary cutting and
6	threading including transporation of rig and surpporting vehicles, screws charges and cost of consumable
7	including yield testing at the final depth with a minimum working of compressor for one hour all as specified.,
8	
9	
10	Supply of ISI Mark 175mm Nominal bore ,plain end steel Casing pipe- grade of steel Fee 410 of wall thickness 5.4 mm thick confirming to IS 1387/1933 and manufactured by basic open hearth electric or basic oxygen process in random lenth of 5 to 7mtrs. Both ends threaded Confirming to IS 554/1985, One end fixed with a Socket Confirming to IS 4270:2001 and the other end with Screwed pipes . All pipes shall be reasonably free from defectes. The tube shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr. (Inclusive of all taxes)
11	Providing and Fixing 250mm dia PVC pipe and as per Specification and Direction
12	Providing 175 mm dia MS Collar
13	Providing 175 mm dia MS Cap
14	Supply and delivery at site brand new submersible pumpset suitable for borewell of 165mm dia and having the declared duty conditions as detailed below and satisfying performance Characteristics for pump and motor as declared by the bureau of indian stand. the pumpset should conform to IS : 8034-1989 (With all its latest amendments) and Should bear ISI Certification mark IS : 8034-1989 Sub mercible pumpset 20HP 40 stage Texmo/Taro or equalents Brands
15	Providing and fixing of 50mm G.I pipe 'B' class heavy duty for erection of submersible pumpset galvanised tube 50mm supply ad delivary of cause heavy duty as per IS/239/1990
16	Supplying and Drawing 3 core Flat PVC Shalted Submersible Pump Cable Manufactured with Electrolytic Grade Copper with Flexible copper conductor to table 3 class 5 of IS 8130-1984 and Virgen PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts

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Unit	Previous Measurement		Present Measurement			Total Up-to-date		Remarks
	Qty.	Cost	Qty	Rate	Cost	Qty	Cost	
Each	0.00	0.00	1.00	1938.00	1938.00	1.00	1938.00	
Rmtr	0.00	0.00	50.00	315.00	15750.00	50.00	15750.00	
	0.00	0.00	50.00	412.00	20600.00	50.00	20600.00	
	0.00	0.00	50.00	458.00	22900.00	50.00	22900.00	
	0.00	0.00	50.00	484.00	24200.00	50.00	24200.00	
	0.00	0.00	50.00	560.00	28000.00	50.00	28000.00	
	0.00	0.00	50.00	600.00	30000.00	50.00	30000.00	
	0.00	0.00	50.00	640.00	32000.00	50.00	32000.00	
	0.00	0.00	15.00	677.00	10155.00	15.00	10155.00	
Mtr	0.00	0.00	30.00	1325.00	39750.00	30.00	39750.00	
Each	0.00	0.00	18.00	1133.00	20394.00	18.00	20394.00	
Each	0.00	0.00	13.00	150.00	1950.00	13.00	1950.00	
Each	0.00	0.00	1.00	100.00	100.00	1.00	100.00	
No	0.00	0.00	1.00	85200.00	85200.00	1.00	85200.00	
Mtr	0.00	0.00	300.00	439.00	131700.00	300.00	131700.00	
Mtr	0.00	0.00	550.00	164.00	90200.00	550.00	90200.00	

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17	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50 hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above componenets panel board for suitable pumpset with star delta staretr out door type 10hp to 15 hp
18	Fabricating Supplying and mounting MS Box of 16 SWG suitable for floor/ wall mounting fully weather proof with provision for better hear description, 9Providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamp with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 Sq cm
19	Providing & Fixing of Clamps set and Borewell cap to the pump 9MR)
20	Supplying and fixing 50mm Non Return Vavle of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per Specifcation
21	Supplying and fixing 50mm GM Gate Vavle
22	Providing & Fixing of 50mm GI Short bend to motor
23	Supplying and fixing 50mm GI Union
24	Supplying and fixing 50mm GI Elbow
25	Labour charges for laying 1.1 KV class UG cable when supplied by agencies in existing trenches GI pipe / stoneware pipe/ on pole as required,
26	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete foundation bed cont door type etc., complete
27	Supplying and fixing miniature Circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required
28	Supplying and laying of L.T.U.G Cable having aluminium conductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 K V class 4 crore 16 sqmm cable 9Confirming to IS 1554)
29	Digging of trench of 0.6m deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete
30	Supplying and fixing class A GI pipe on pole/Wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm
31	Supplying. fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of solt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia

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No	0.00	0.00	1.00	14800.00	14800.00	1.00	14800.00	
Sq-cm	0.00	0.00	22000.00	0.35	7700.00	22000.00	7700.00	
No	0.00	0.00	1.00	1908.00	1908.00	1.00	1908.00	
No	0.00	0.00	1.00	1908.00	1908.00	1.00	1908.00	
No	0.00	0.00	1.00	1908.00	1908.00	1.00	1908.00	
No	0.00	0.00	1.00	232.00	232.00	1.00	232.00	
No	0.00	0.00	1.00	237.00	237.00	1.00	237.00	
No	0.00	0.00	1.00	111.00	111.00	1.00	111.00	
L	0.00	0.00	50.00	90.00	4500.00	50.00	4500.00	
NO	0.00	0.00	1.00	475.00	475.00	1.00	475.00	
NO	0.00	0.00	1.00	906.00	906.00	1.00	906.00	
Mtr	0.00	.0.00	45.00	169.00	7605.00	45.00	7605.00	
Mtr	0.00	0.00	45.00	56.00	2520.00	45.00	2520.00	
Mtr	0.00	0.00	3.00	249.00	747.00	3.00	747.00	
NO	0.00	0.00	1.00	1699.00	1699.00	1.00	1699.00	

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32	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmm UG cable filled with neccesary bitumen / insulating compound complete with termiinalas, clamps, bolts, nuts, washers etc.,
33	Supoplying Shunt capacitor's comfirming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating Nos
34	Providing & Fixing Gun Metal Gate wheel valve confirming to IS Specifivation of approved make as per direction including all lead and lift etc., complete 50mm dia 9
35	Supplying and fixing of polished wood board made up not less than 15mm thick plank in both side with plank made out on not more than 2 piecess and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20x20x2.5 inches
36	Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.
37	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.)
38	KSRB-2-4 Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m including cost of all labour complete as specifications.. allow 60% of rate considered under item KSRB 2.3 Page No. 7/ Item No. 2.11/PWD - SR 2018-19)
39	Supply and delivery at site brand new Texmo / Innoval / Lubi / Sabar / Atalanta / Calamal / waterman / Radha make suitable vertical installation in 150mm dia. Borewells comprising of single stage or miultistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction mortor suitable for operation of 3Ph., 50Hz. 380/44 volts AC supply fitted with required accessories such as suction. casing, suction strainers, sand guard Non return valve etc., complete the pump and motor shall form an integral unit with all the required fittings 20HP 30 stage Kirloskar, Atlanta, Suguna, CRI & other equipment
40	Supply and delivery at site brand new Texmo / Innoval / Lubi / Sabar / Atalanta / Calamal / waterman / Radha make suitable vertical installation in 150mm dia. Borewells comprising of single stage or miultistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction mortor suitable for operation of 3Ph., 50Hz. 380/44 volts AC supply fitted with required accessories such as suction. casing, suction strainers, sand guard Non return valve etc., complete the pump and motor shall form an integral unit with all the required fittings 20HP 25 stage Kirloskar, Atlanta, Suguna, CRI & other equipment pump
41	Supplying and Drawing 3 core Flat PVC Shalted Submersible Pump Cable Manufactured with Electrolytic Grade Copper with Flexiblo copper conductor to table 3 class 5 of IS 8130-1984 and Virgen PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts
42	Supplying and fixing 50mm Non Return Vavle of vertical type of approved make including cost of all materials labour HOM of equipment with all leads Complete as per Specifcation

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NO	0.00	0.00	1.00	271.00	271.00	1.00	271.00	
NO	0.00	0.00	1.00	1350.00	1350.00	1.00	1350.00	
NO	0.00	0.00	3.00	778.00	2334.00	3.00	2334.00	
NO	0.00	0.00	1.00	311.00	311.00	1.00	311.00	
CUM	0.00	0.00	60.75	475.00	28856.00	60.75	28856.00	
RMTR	0.00	0.00	135.00	1908.00	257580.00	135.00	257580.00	
CUM			60.75	128.00	7776.00	60.75	7776.00	
NO			2.00	74287.00	148574.00	2.00	148574.00	
NO			1.00	78833.00	78833.00	1.00	78833.00	
MTR			2500.00	159.00	397500.00	2500.00	397500.00	
NO			2.00	1150.00	2300.00	2.00	2300.00	

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43	Supplying and fixing 50mm GM Gate Vavle
44	Supplying and fixing 175mm Borewell cap with clampset As per approved Rate per
45	Supplying and fixing 50mm GI Union
46	Supplying and fixing 50mm GI Elbow
47	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adharsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50 hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above componenets panel board for suitable pumpset with star delta staretr out door type 10hp to 15 hp
48	Providing and fixing of 50mm G.I pipe 'C' class heavy duty for erection of submersible pumpset galvanised tube 50mm supply ad delivary of cause heavy duty as per IS/239/1990
49	Supplying and fixing 50mm GI coller Heavy duty
50	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete foundation bed cont door type etc., complete
51	Supplying of TPST with rewireable porcelain channels in SM encloser 15/32 amps
52	Supplying and fixing 500x500x65mm polished wood board made up not less than 15mm thick plank in front plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts,
53	Supplying and fixing LED Type panel board indicating lamp with required colour suitable for 220 v AC 50Hz 12/24 V DC Group 'B'
54	Supplying and drawing each PVC insulated 650/100 V grade wire in the conduct (Open or Concealed system of wiring) 7/20 or 7/36 copper wire.
55	Supplying, fixing and wiring heavy duty low voltage capacitors confirming to I 2834, 3 PHASE 400/440 Volts grade for power factor improvement of rotating machinery capacitor in KVAR - rating Nos 2 KVAR Capacity
56	Supplying and fixing miniature Circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required
57	Supplying, fixing, wiring earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.50m long buried in a pit. The pit should be filled with equal proportion of solt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specifications 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 throught holes of 122mm dia
58	Supplying and fixing class A (medium duty) GI pipe wall thickness not less than 3.25mm on pole.

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NO			2.00	1650.00	3300.00	2.00	3300.00	
			2.00	500.00	1000.00	2.00	1000.00	
NO			20.00	223.00	4460.00	20.00	4460.00	
NO			20.00	111.00	2220.00	20.00	2220.00	
NO			13.00	10000.00	130000.00	13.00	130000.00	
Mtr			923.00	519.00	479037.00	923.00	479037.00	
NO			135.00	150.00	20250.00	135.00	20250.00	
NO			5.00	475.00	2375.00	5.00	2375.00	
NO			5.00	1320.00	6600.00	5.00	6600.00	
NO			5.00	302.00	1510.00	5.00	1510.00	
NO			15.00	385.00	5775.00	15.00	5775.00	
NO			20.00	27.00	540.00	20.00	540.00	
NO			5.00	385.00	1925.00	5.00	1925.00	
NO			5.00	880.00	4400.00	5.00	4400.00	
NO			30.00	1650.00	49500.00	30.00	49500.00	
NO			20.00	286.00	5720.00	20.00	5720.00	

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59	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 Mtr long buried in a pit./ the pit should be filled with equal proporation of salt and charocal 150mm alround the pipe to complete depth the connections from the pipe to the conduits etc., is to be established through GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12 mmdia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia
60	Labour charges for laying 1.1 KV class UG cable when supplied by agencies in existing trenches GI pipe / stoneware pipe/ on pole as required,
61	Digging of trench of 0.6m deep x 0.5m wide refilling the trench to the required level and consolidating etc., complete
62	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmm UG cable filled with neccesary bitumen / insulating compound complete with termiinalas, clamps, bolts, nuts, washers etc.
63	Supplying and fixing of porcelain fuse channel with cut-out on existing / new wooden panel using neccesary nuts, bolts and washers etc.,
64	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Asphalt surface road.
65	Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.
66	Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure of outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM and testing complete as per specifications. 63MM dia Specification No KBS 13.2.15.2
67	Supplying and fixing 50 mm GI pipes 'B' class heavy duty (As PER bwssb Store Issued Rate) Note:- GI Pipe using for Road crossing places.
68	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. Including cost of all labour complete as per specification

Certificate:-

1 .The contractor has executed the work satiesfactory Hence the bill is Recommended for payments

2 . The contractor has cleared all the Debries from work spot.

3 .works comes under BBMP Limit.

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NO			4.00	1650.00	6600.00	4.00	6600.00	
Mtr			60.00	5.50	330.00	60.00	330.00	
Mtr			60.00	44.00	2640.00	60.00	2640.00	
NO			60.00	264.00	15840.00	60.00	15840.00	
NO			12.00	440.00	5280.00	12.00	5280.00	
CUM			18.00	475.00	8550.00	18.00	8550.00	
CUM			67.50	475.00	32063.00	67.50	32063.00	
Rmtr			250.00	394.00	98500.00	250.00	98500.00	
Mtr			90.00	325.00	29250.00	90.00	29250.00	
CUM			150.00	128.00	19200.00	150.00	19200.00	
Total							2464643.00	
TOTAL							2464643.00	
LIMITED TO TENDER AMOUNT OF RS							2464642.00	
ADD 12% GST							295757.00	
NET AMOUNT PAYABLE OF RS							2760399.00	

Assistant Engineer -14

Assistant Executive Engineer
T.D. Land Acquisition Division
BBMP
Bangalore 560073.

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